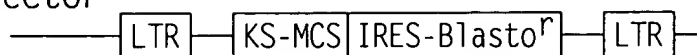


Fig. 1

Retroviral vector
pBIB-KS



Kozak-Start

GA TCT GCC GCC ACC ATG GAA TTC GAT ATC GGA TCC CTG CAG
 _____ A CGG CGG TGG TAC CTT AAG CTA TAG CCT AGG GAC GTC
 (BglIII) EcoRI BamHI PstI

AAG CTT GAG CTC GAG CGC GGC CGC TAA TTA GCT GAG
 TTC GAA CTC GAG CTC GCG CCG GCG ATT AAT CGA CTC AGC T
 HindIII XhoI NotI Stop Stop Stop (SalI) ReadingFrame 1
 KS1+

Kozak-Start

GA TCT GCC GCC ACC ATG GGA ATT CGA TAT CGG ATC CCT GCA G
 _____ A CGG CGG TGG TAC CCT TAA GCT ATA GCC TAG GGA CGT C
 (BglIII) EcoRI BamHI PstI

AA GCT TGA GCT CGA GCG CGG CCG CTA ATT AGC TGA G
 TT CGA ACT CGA GCT CGC GCC GGC GAT TAA TCG ACT CAG CT
 HindIII XhoI NotI Stop Stop Stop (SalI) ReadingFrame 1
 KS2+

Kozak-Start

GA TCT GCC GCC ACC ATG GGG AAT TCG ATA TCG GAT CCC TGC AG
 _____ A CGG CGG TGG TAC CCC TTA AGC TAT AGC CTA GGG ACG TC
 (BglIII) EcoRI BamHI PstI

A AGC TTG AGC TCG AGC GCG GCC GGT AAT TAG CTG AG
 T TCG AAC TCG AGC TCG GCG CCG CGA TTA ATC GAC TCA GCT
 HindIII XhoI NotI Stop Stop Stop (SalI) ReadingFrame 3
 KS3+

Fig. 2

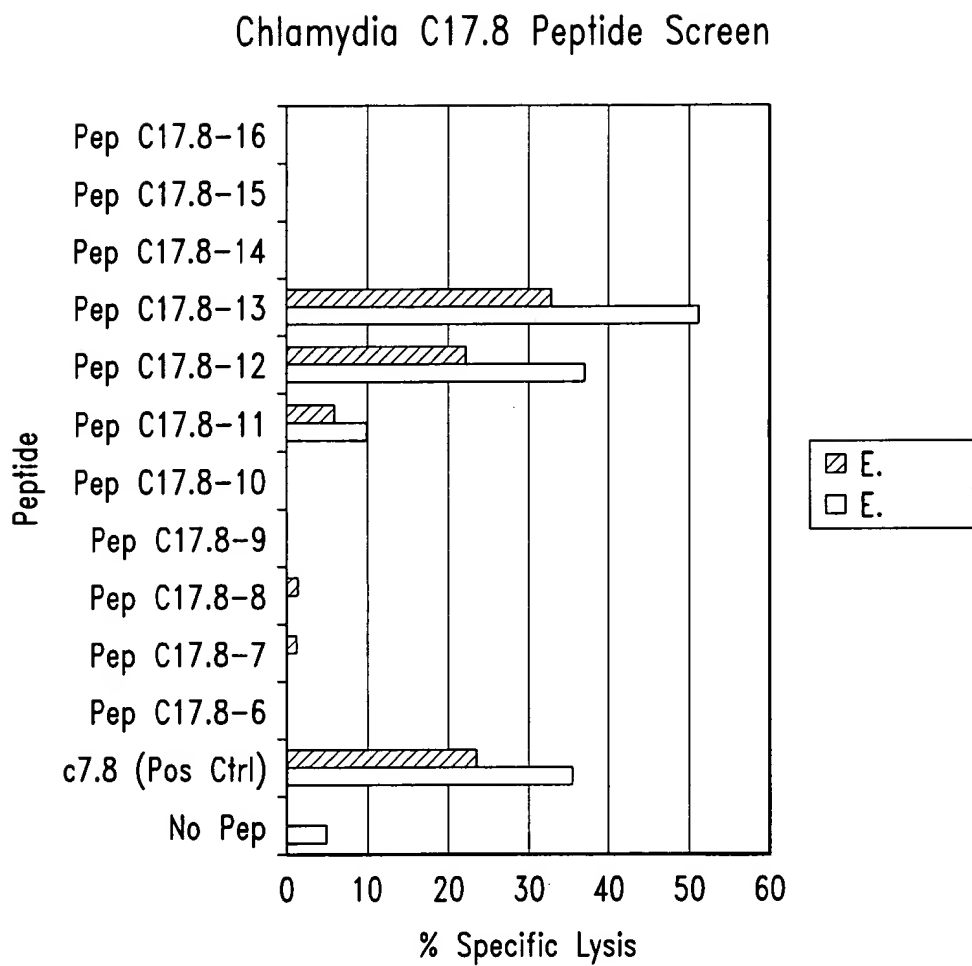


Fig. 3

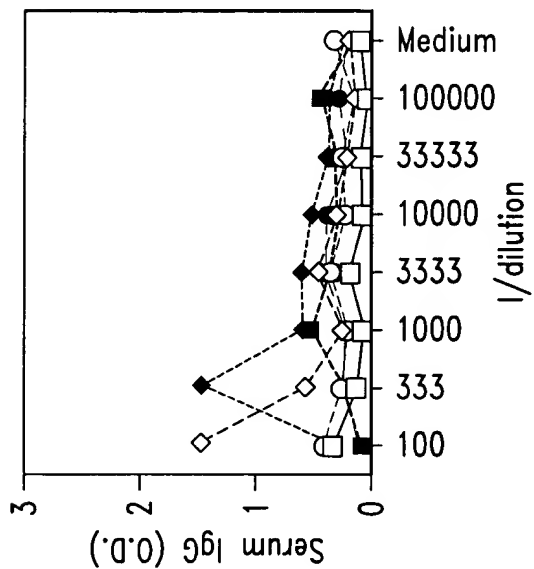


Fig. 4A

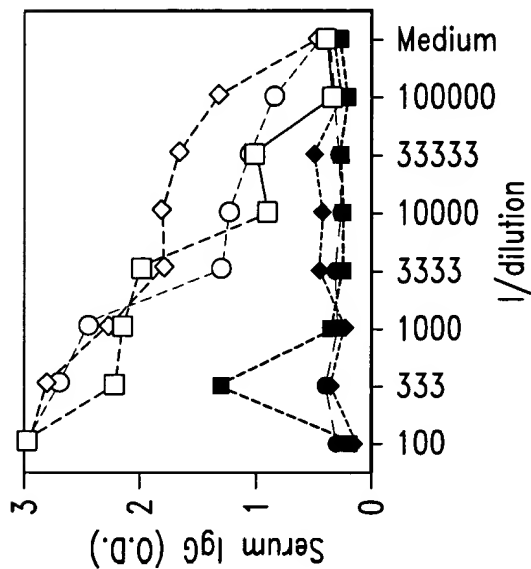


Fig. 4B

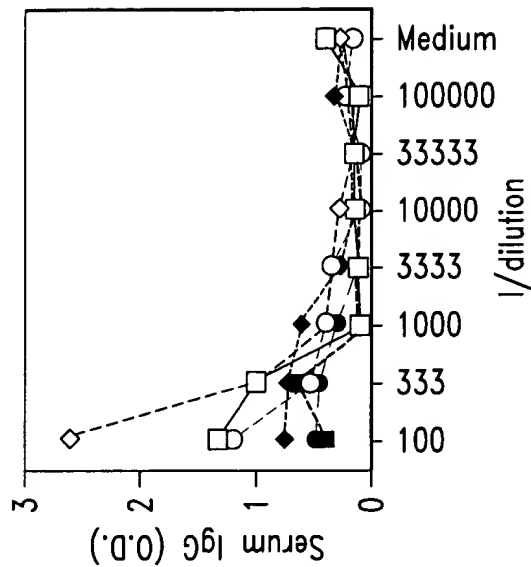
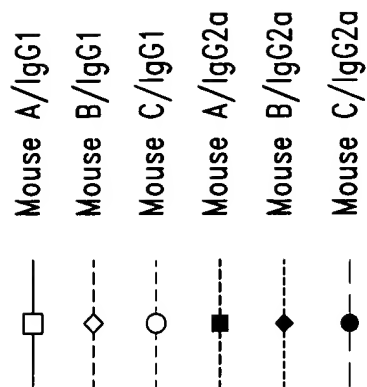


Fig. 4C



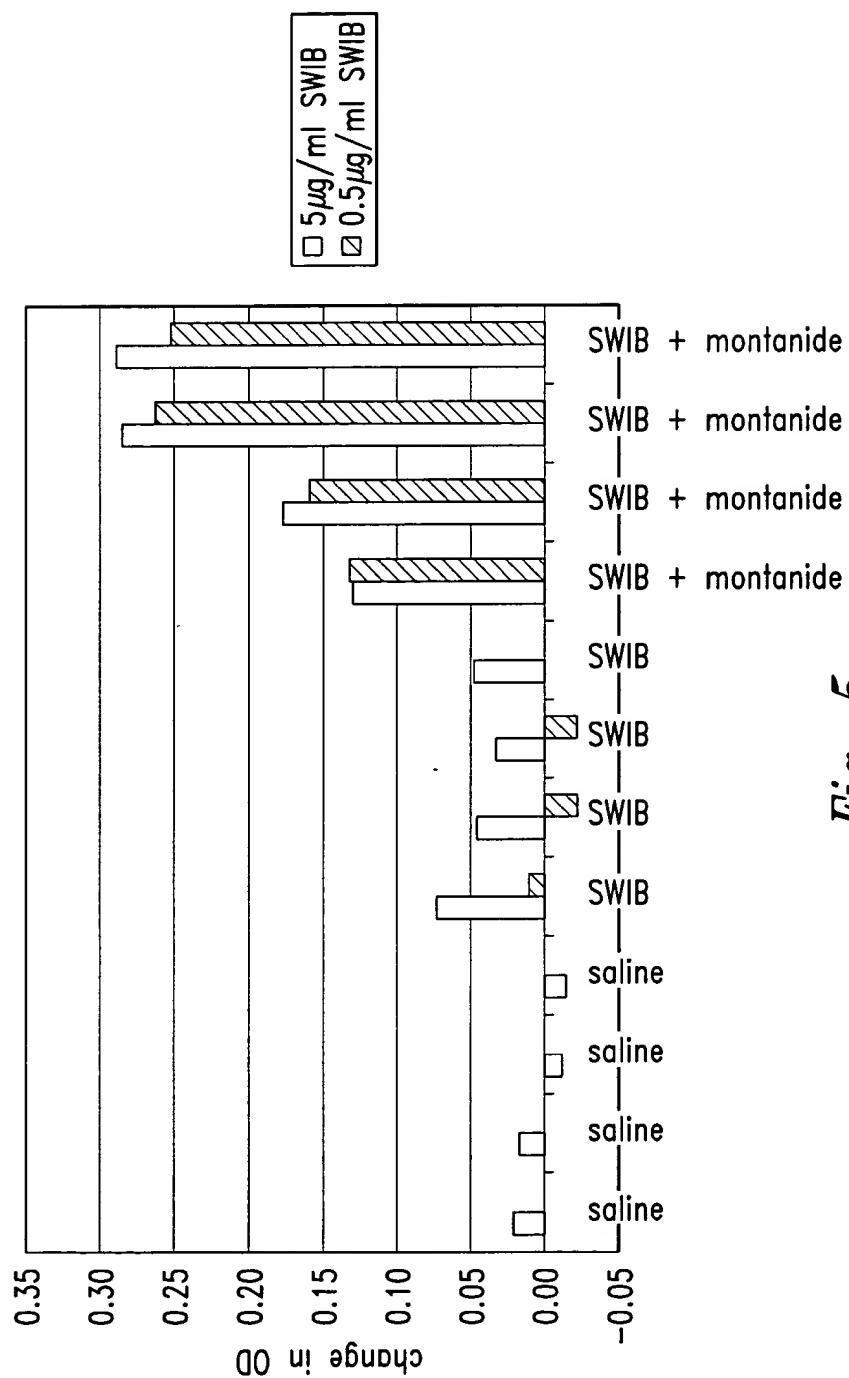


Fig. 5

CP SWIB Nde (5' primer)

5' GATATACATATGCATCACCATCACCATCACATGAGTCAAAAAATAAAAACTCT

CP SWIB EcoRI (3' primer)

5' CTCGAGGAATTCTTATTTACAATATGTTTGA

CP S13 Nde (5' primer)

5' GATATACATATGCATCACCATCACCATCACATGCCACGCATCATTGGAATGAT

CP S13 EcoRI (3' primer)

5' CTCGAGGAATTCTTATTTCTTCTTACCTGC

Fig. 6

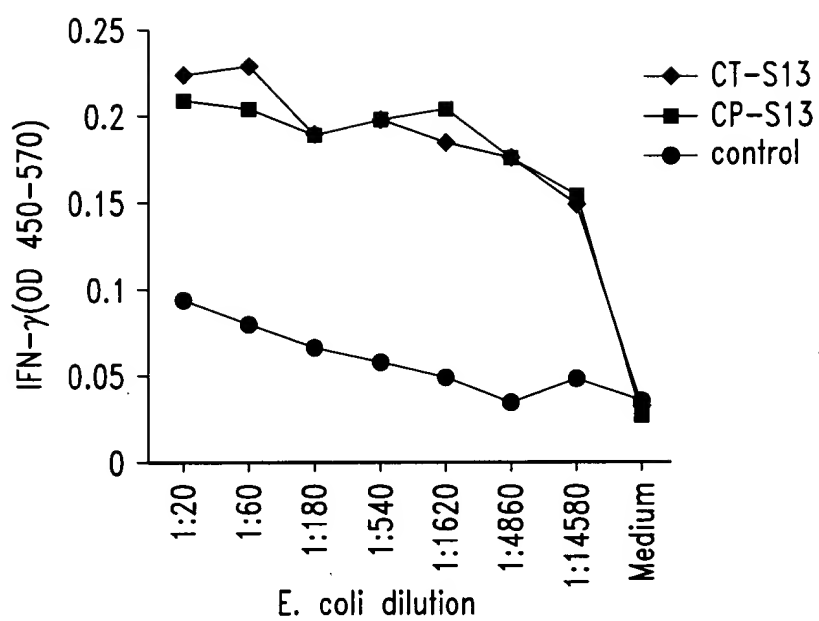


Fig. 7A

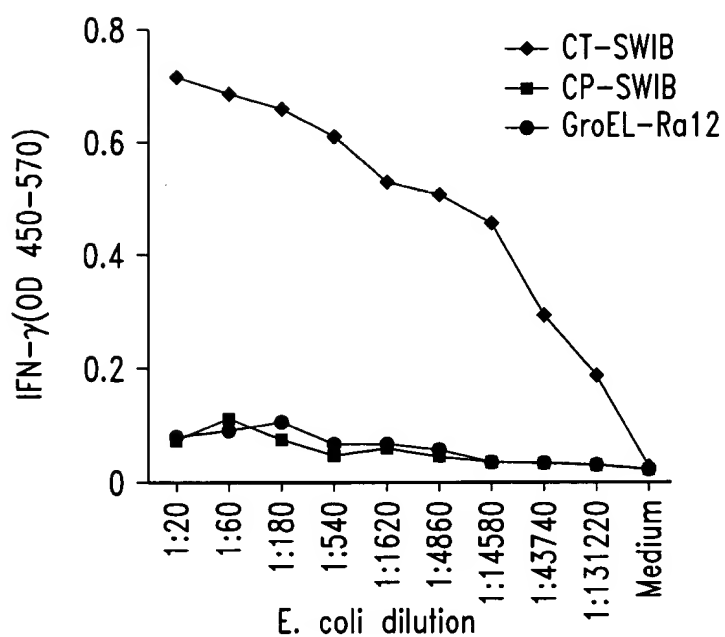


Fig. 7B

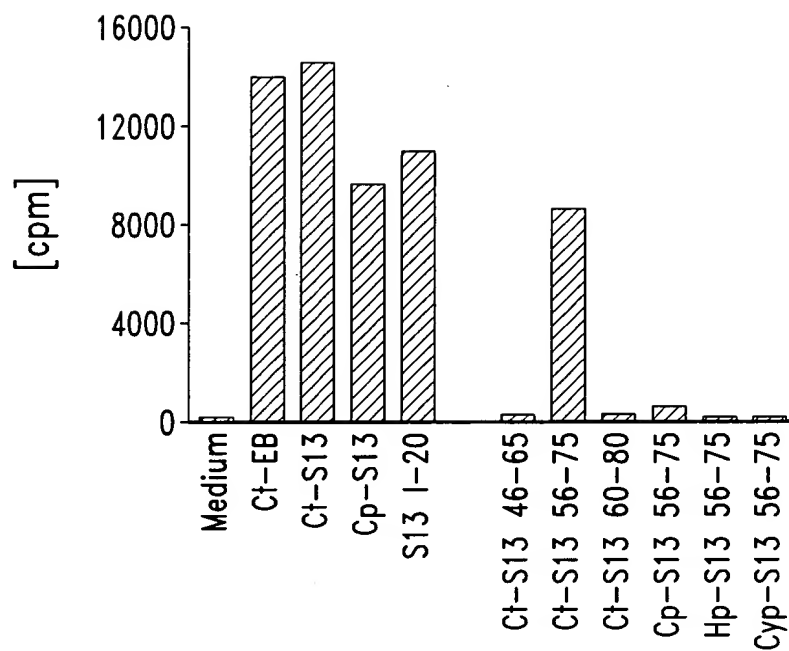


Fig. 8

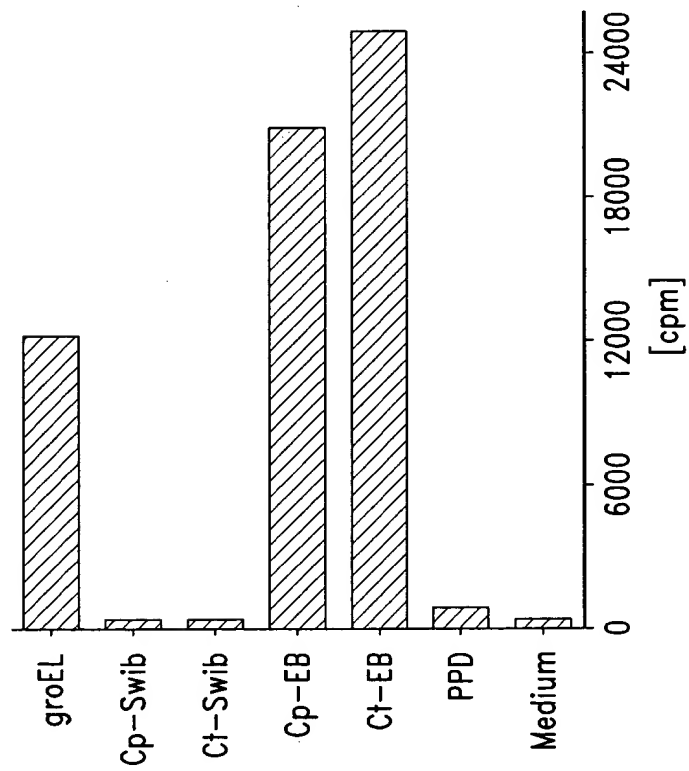


Fig. 9A

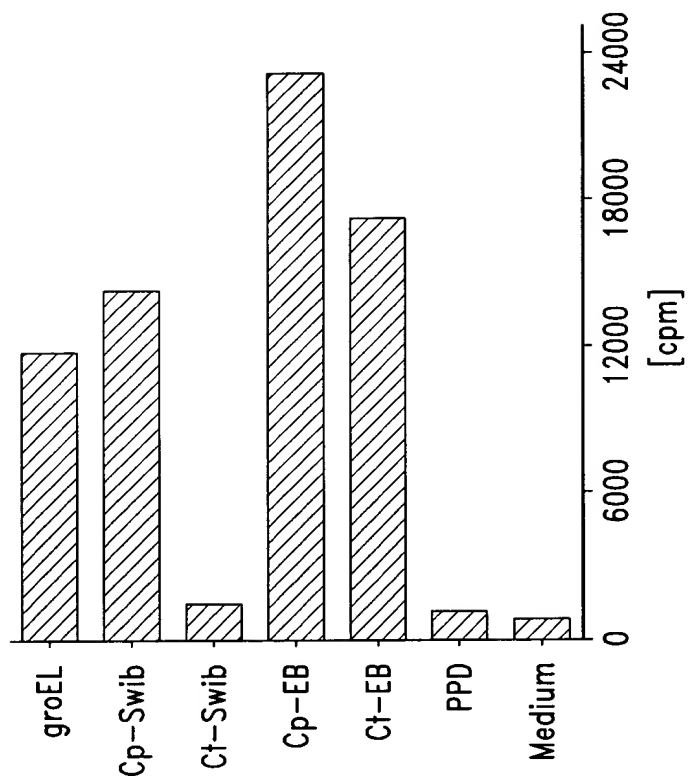


Fig. 9B

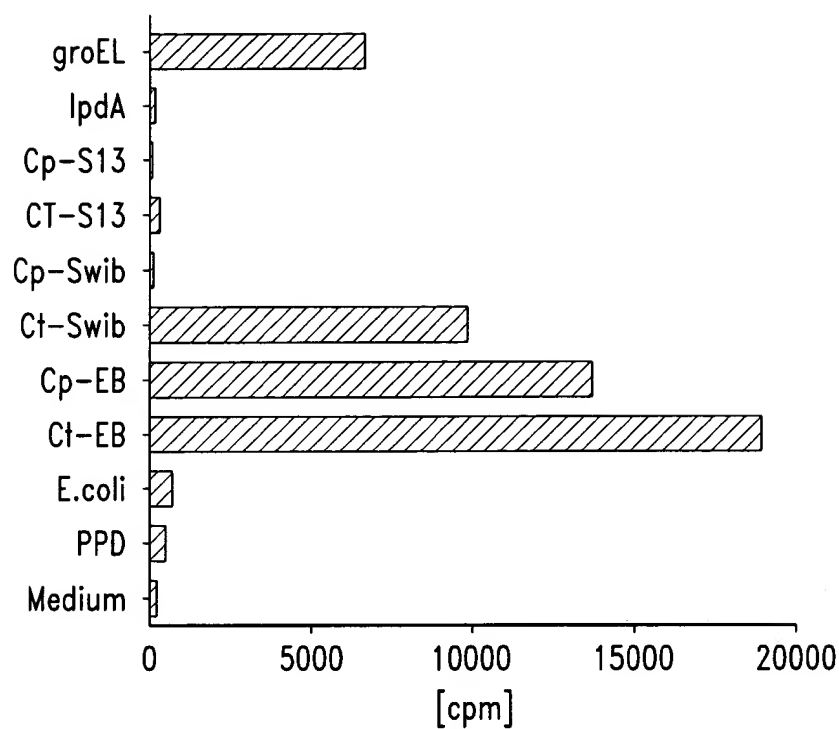


Fig. 10

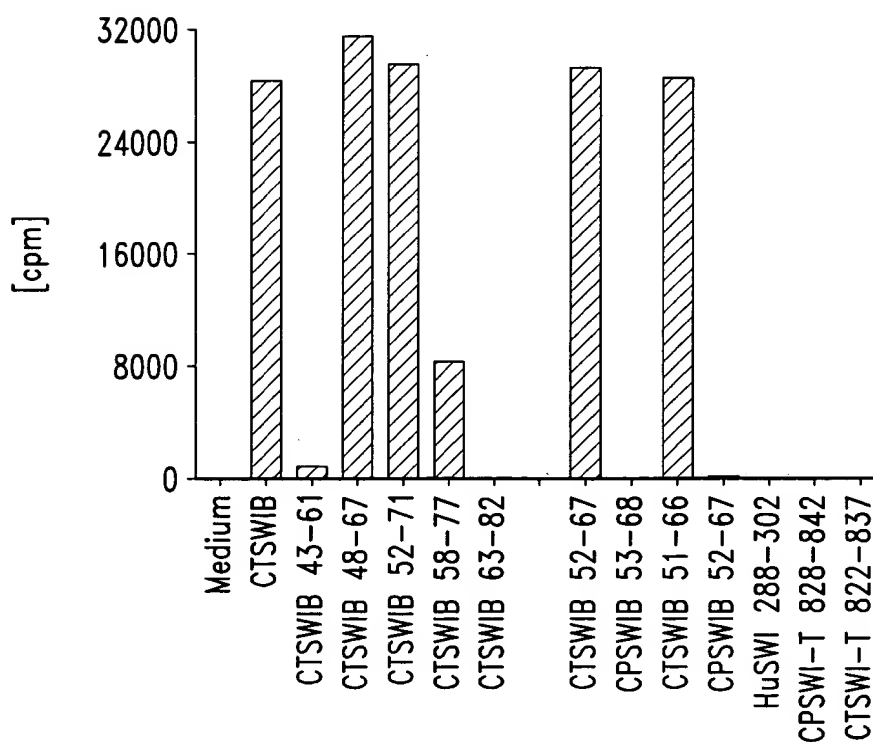


Fig. 11

T cell lines from two patients respond to recombinant CT622

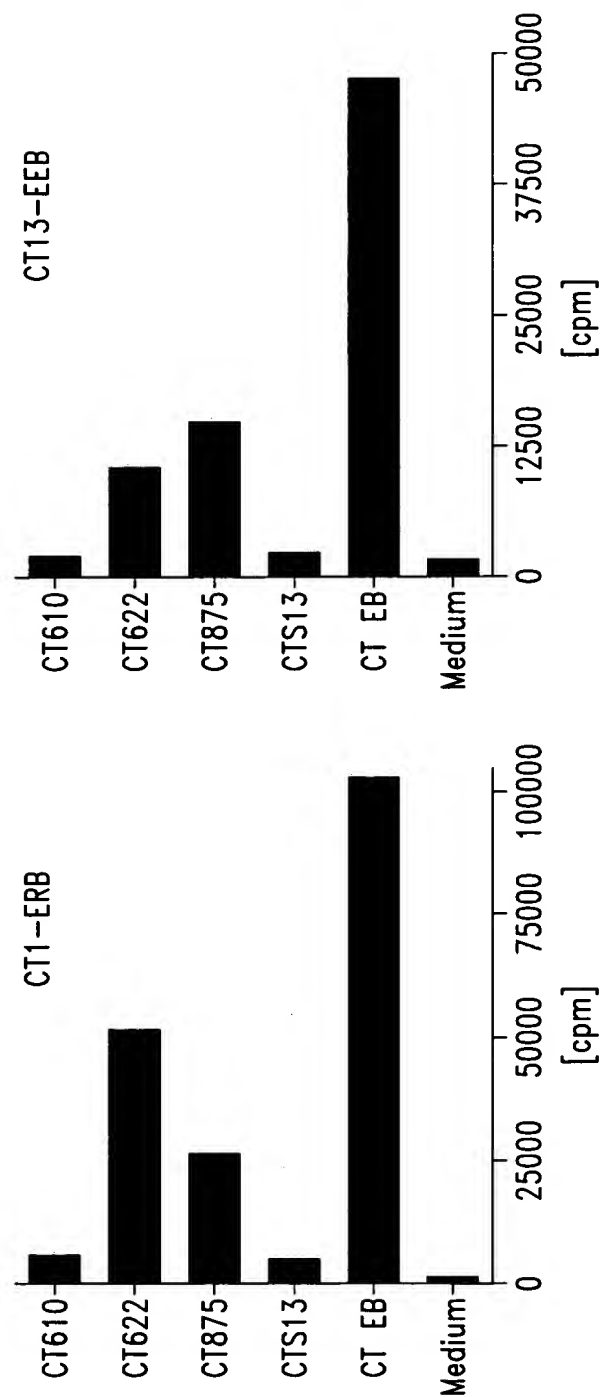


Fig. 12